



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

September 9, 2019

MEMORANDUM TO: Steven T. Lynch, Acting Chief
Advanced Reactor Licensing Branch
Division of Advanced Reactors
Office of New Reactors

FROM: Jan M. Mazza, Project Manager */RA/*
Advanced Reactor Licensing Branch
Division of Advanced Reactors
Office of New Reactors

SUBJECT: SUMMARY OF JULY 24, 2019, OPEN CATEGORY 2 AND
CLOSED MEETING WITH THE U.S. NUCLEAR REGULATORY
COMMISSION STAFF AND OKLO, INC., TO DISCUSS OKLO,
INC. PHYSICAL SECURITY AND EMERGENCY
PREPAREDNESS (EPID LRM-0011)

On July 24, 2019, a meeting was held between the U.S. Nuclear Regulatory Commission (NRC) staff and representatives from Oklo, Inc. (Oklo) at the NRC offices at One White Flint North, 11555 Rockville Pike., Rockville, Maryland 20852, Room 2-H50. The meeting was a combination of a public Category 2 and non-public meeting. The purpose of the meeting was to discuss Oklo's plans for emergency preparedness (EP) and physical security.

The public portion of the meeting commenced with an introduction to Oklo and its organization. Oklo also provided information on its design, including key design features, size, fuel, and safety case and its impacts on physical security and EP. Oklo also presented results from its implementation of Draft Guide (DG)-1353, "Guidance for a Technology-Inclusive, Risk-Informed, and Performance-Based Approach to Inform the Content Applications for Licenses, Certifications, and Approvals for Non-Light Water Reactors," including the proposed application content in the areas of physical security and EP.

To conclude the public portion of the meeting, the NRC staff committed to actively supporting Oklo in additional pre-application interactions, including requests for NRC actions and participation in public meetings, to better enable preparation for a custom combined license application that may require the consideration of unique approaches to technical analyses and regulatory requirements. As part of this discussion, the NRC staff suggested that the NRC staff and Oklo plan future discussions on the identification of applicable regulations, including potential exemptions, and the safety case for Oklo's proposed facility and application. The NRC staff stated that coordination on more detailed technical discussions on design-specific information would be key to successful pre-application discussions. Specifically, the NRC staff requested that future meetings with Oklo cover 1) the Oklo safety case, including design basis accidents, site considerations, and the establishment of emergency planning zone and 2) a discussion on how Oklo would either meet existing regulations or request exemptions. Oklo agreed that these discussions would be beneficial and would work with the NRC staff to arrange these meetings.

During the non-public portion of the meeting, Oklo sought NRC staff feedback on Section 15, "Emergency Plans," and Section 28, "Physical Security," of the Oklo "DG-1353 Pilot Report." During these discussions, the NRC staff provided its views on physical security and EP for a micro-reactor design. As a result of these discussions, the NRC staff gained insight on the maturity of Oklo's safety case and plans for physical security and EP. The NRC staff suggested that future discussions on these topics would be beneficial to prepare for an application submittal.

The meeting agenda and list of meeting attendees are included in Enclosures 1 and 2, respectively. The meeting notice, non-proprietary version of the meeting slides, non-proprietary version of the Oklo "DG-1353 Pilot Report," and DG-1353, are located in the NRC's Agencywide Documents Access and Management System (ADAMS) at accession numbers ML19192A057, ML19204A155, ML19038A473, and ML18264A093, respectively.

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Project No.: 99902046

Enclosures:

1. Agenda
2. List of Attendees

S. Lynch

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SUBJECT: SUMMARY OF JULY 24, 2019, OPEN CATEGORY 1 AND CLOSED MEETING WITH THE U.S. NUCLEAR REGULATORY COMMISSION STAFF AND OKLO, INC., TO DISCUSS OKLO, INC. PHYSICAL SECURITY AND EMERGENCY PREPAREDNESS (EPID LRM-0011) – DATED September 9, 2019

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OFFICE	NRO/DAR/ARLB	NRO/DAR/ARLB
NAME	JMazza	SLynch*
DATE	09/ /2019	09/09/2019

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AGENDA

Oklo, Inc. Open and Closed Meeting with the U.S. Nuclear Regulatory Commission (NRC)

Emergency Preparedness and Physical Security

Wednesday, July 24, 2019

One White Flint North 2-H50

Time	Topic	Lead
9:00 a.m. – 9:10 a.m.	Opening/Introductions	NRC/Oklo, Inc.
9:10 a.m. – 10:00 a.m.	Introduction to Oklo and High-Level Discussion on Oklo's Plans for Physical Security and Emergency Preparedness – Open to the Public	Oklo, Inc.
10:00 a.m. – 10:15 a.m.	Break	
10:15 a.m. 12:00 p.m.	Emergency Preparedness Discussion – Closed to the Public	Oklo, Inc.
12:00 p.m. – 1:00 p.m.	Lunch	
1:00 p.m. - 3:00 p.m.	Physical Security Discussion – Closed to the Public	Oklo, Inc.
3:00 p.m.	Meeting Adjourn	All

ATTENDANCE LIST

Oklo, Inc. Open and Closed Meeting with the U.S. Nuclear Regulatory Commission (NRC)

Emergency Preparedness and Physical Security Meeting

Wednesday, July 24, 2019

One White Flint North 2-H50

Name	Affiliation
Scott, Michael	NRC/NSIR
Segala, John	NRC/NRO
Mazza, Jan	NRC/NRO
Lee, Pete	NRC/NSIR
Anderson, Joseph	NRC/NSIR
Harris, Tim	NRC/NSIR
Hart, Michelle	NRC/NRO
Schrader, Eric	NRC/NSIR
Rivers, Joe	NRC/NSIR
Kahler, Robert	NRC/NSIR
Monninger, John	NRC/NRO
Diec, David	NRC/NSIR
Lynch, Steven	NRC/NRO
Travis, Boyce	NRC/NRO
Milligan, Patricia	NRC/NSIR
Phan, Hahn	NRC/NRO
Barss, Dan	NRC./NSIR
Jung, Ian	NRC/NRO
Magruder, Stu	NRC/NRO
Musico, Bruce	NRC/NSIR
Dority, Dayna	NRC/NRO
Cochran, Caroline	Oklo, INC.
Popova, Alex	Oklo, INC
Costa, Arlon	NRC/NRO